Basic principles

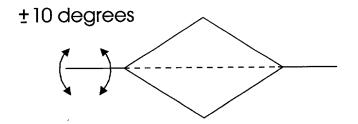


Fig. 1

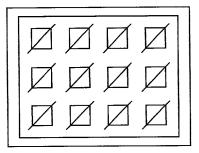


Fig. 2

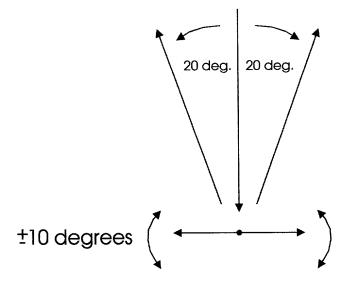
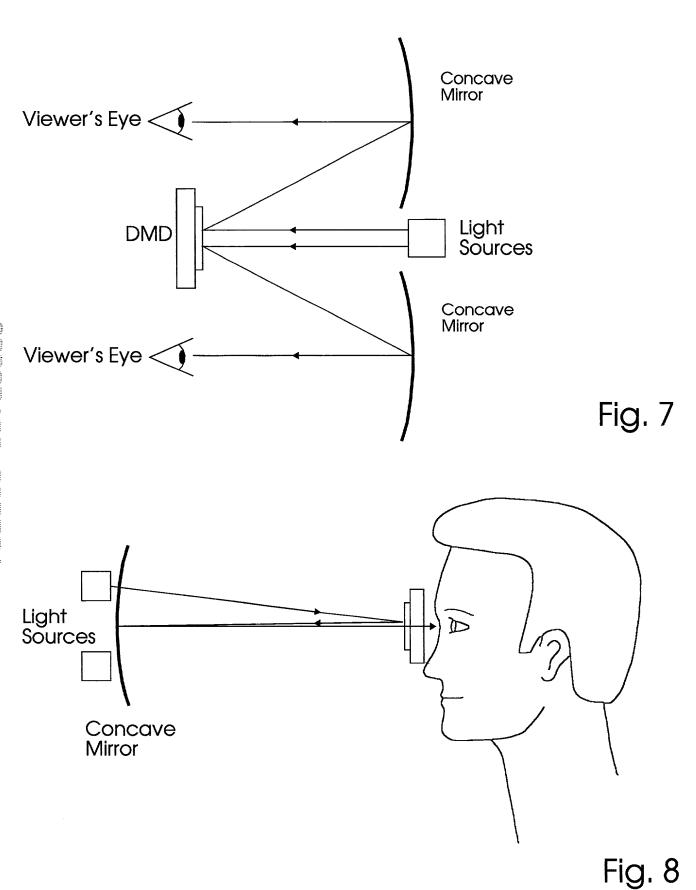
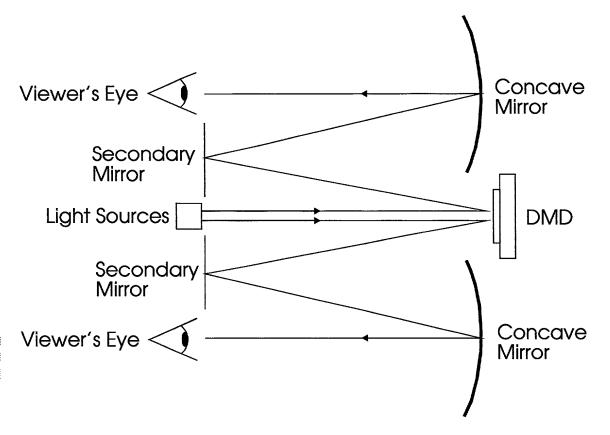


Fig. 3





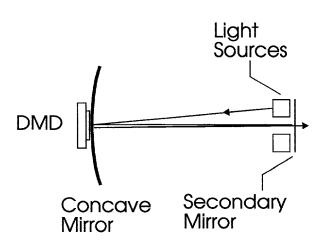
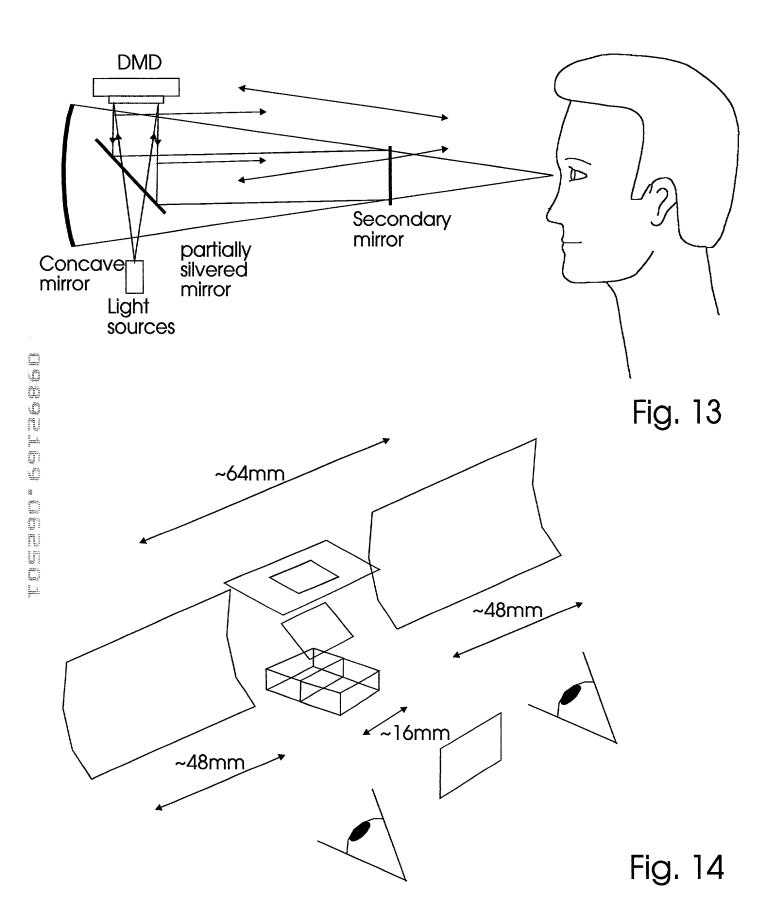


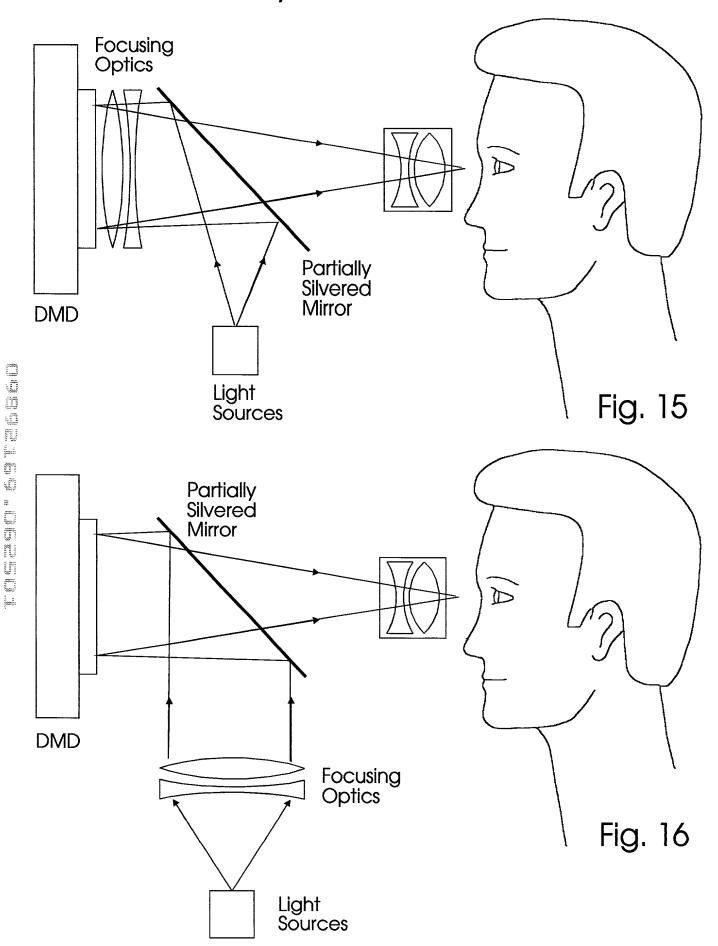
Fig. 10

Fig. 9

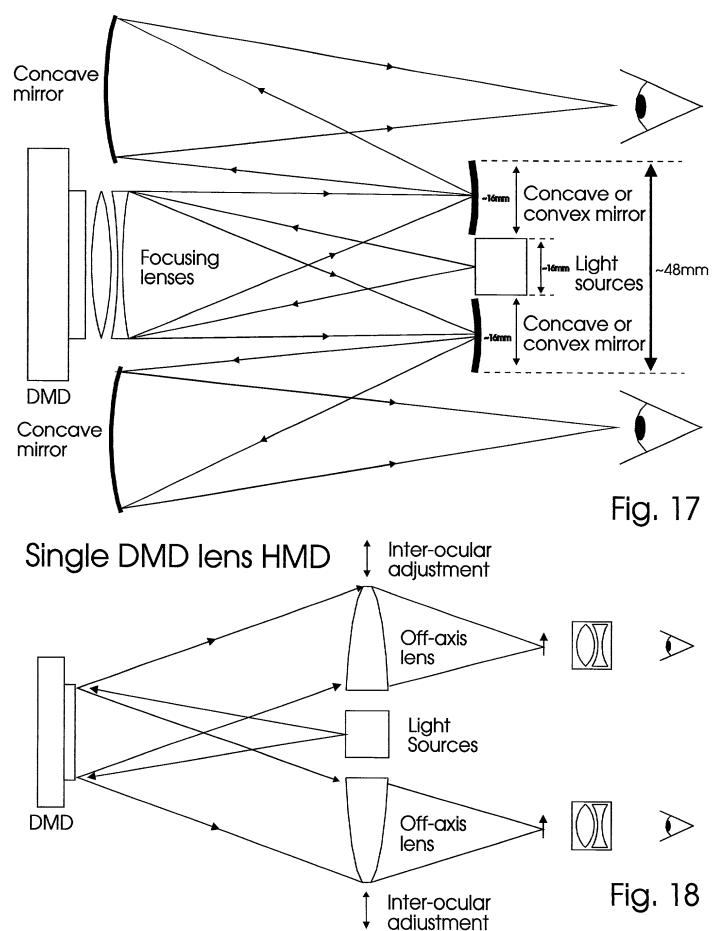
Enhancements



Dual DMD lens system



2 stage dual mirror hybrid HMD



Prismatic lens design

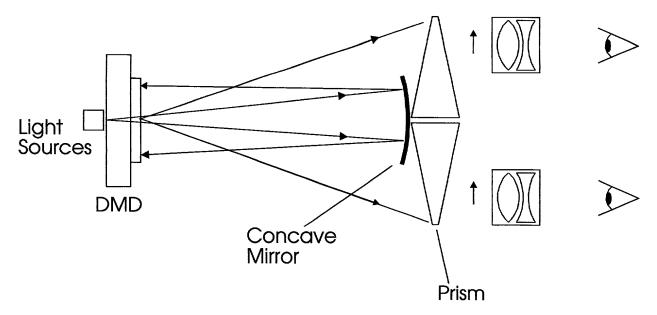


Fig. 19

Binocular lens design

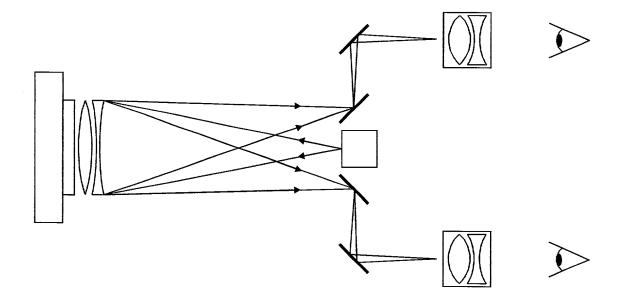


Fig. 20

Single stage hybrid lens system

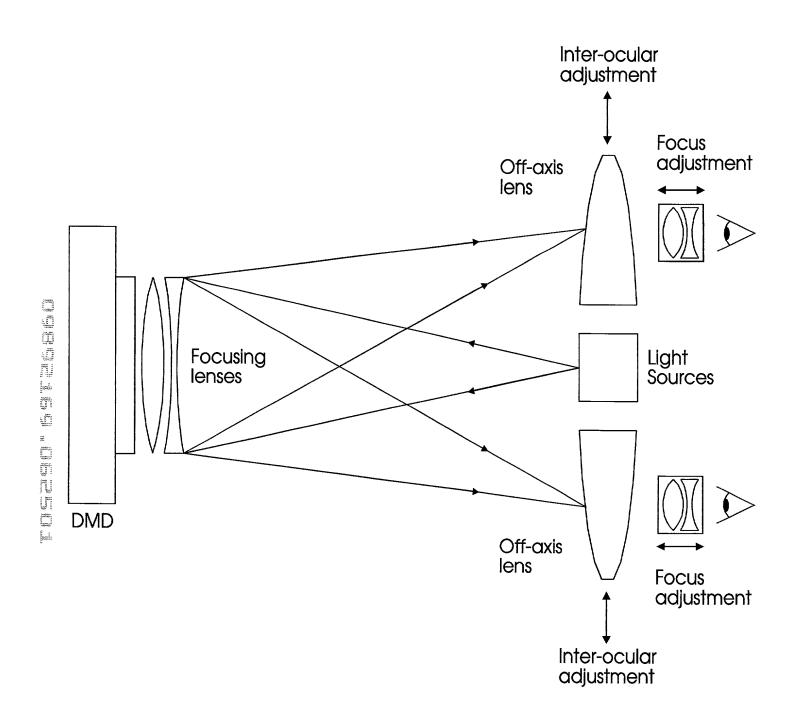


Fig. 21

2 stage hybrid lens system (preferred embodiment)

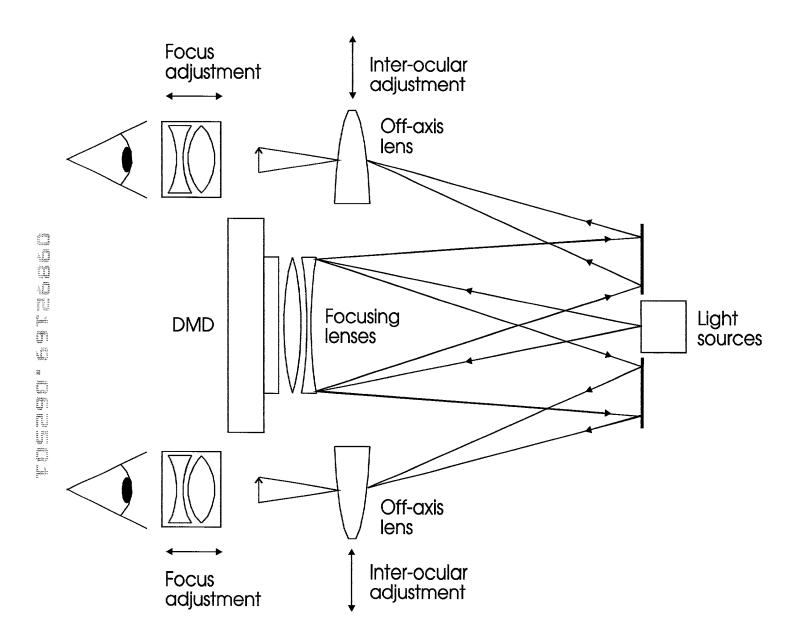
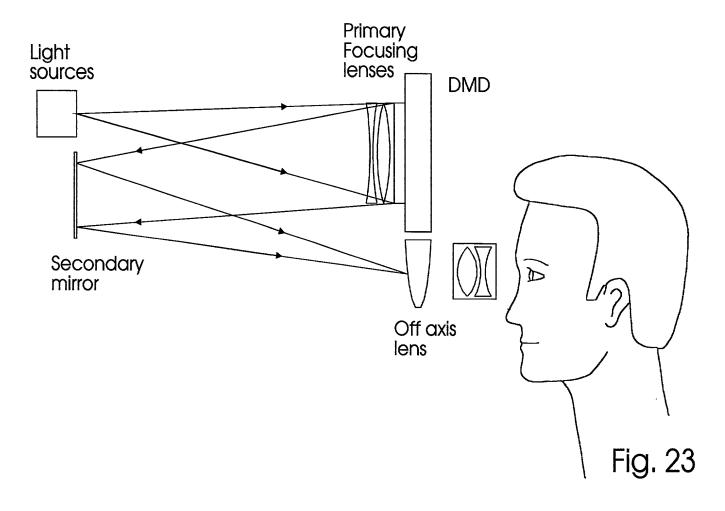
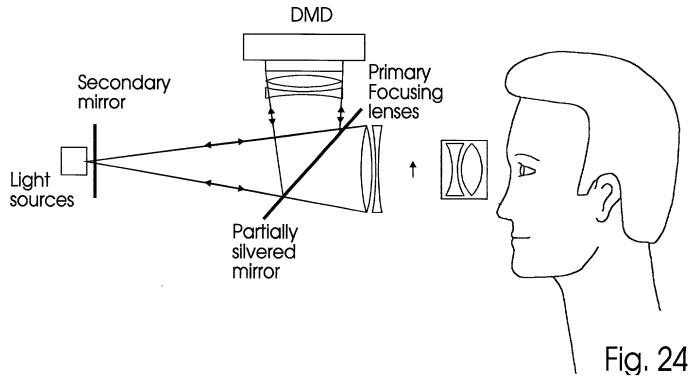
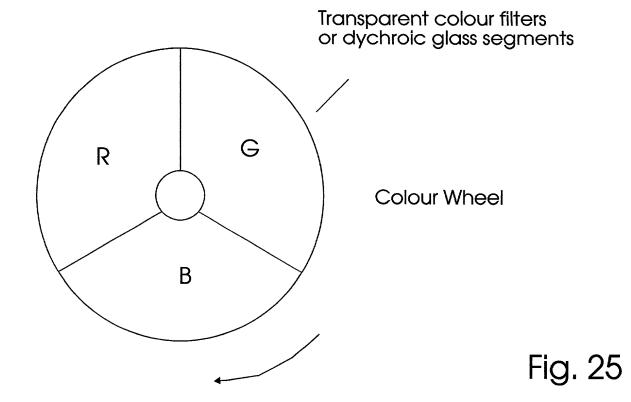


Fig. 22







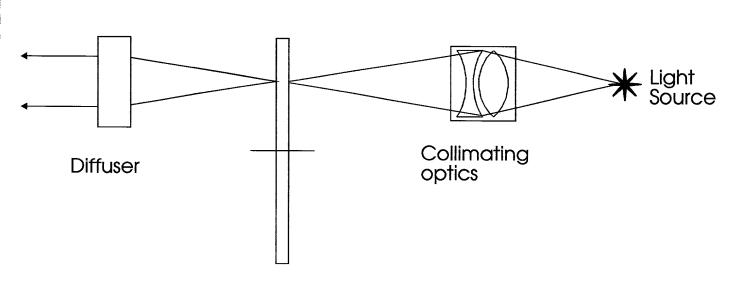


Fig. 26

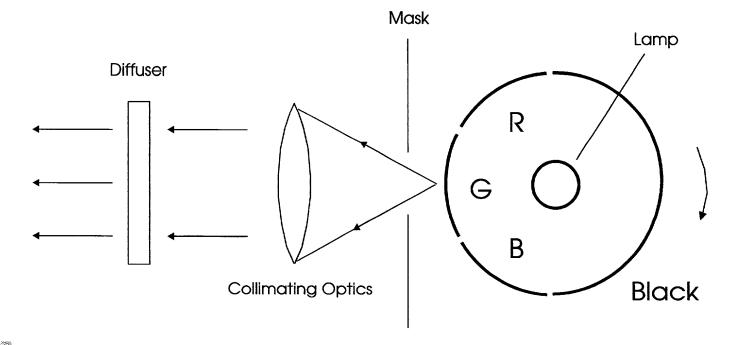
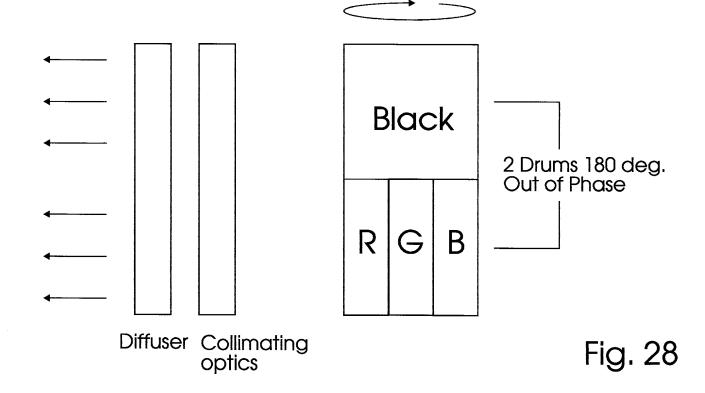


Fig. 27



Light sources

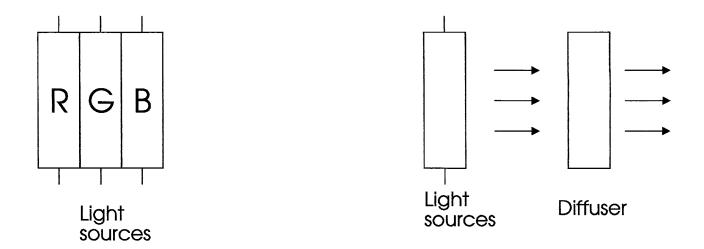


Fig. 29

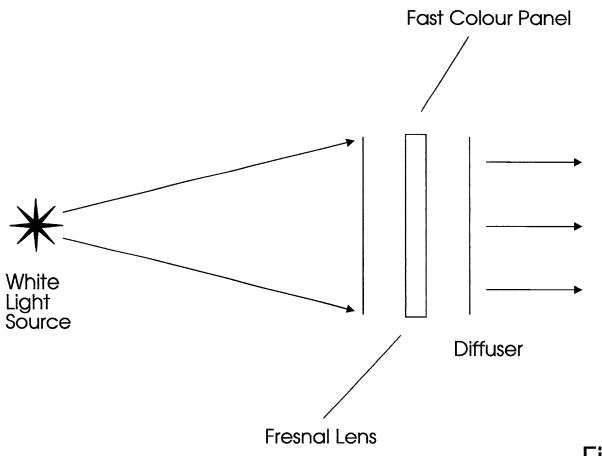
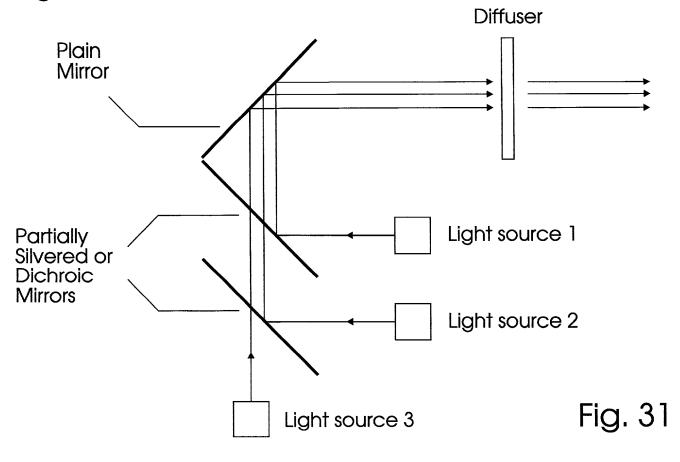
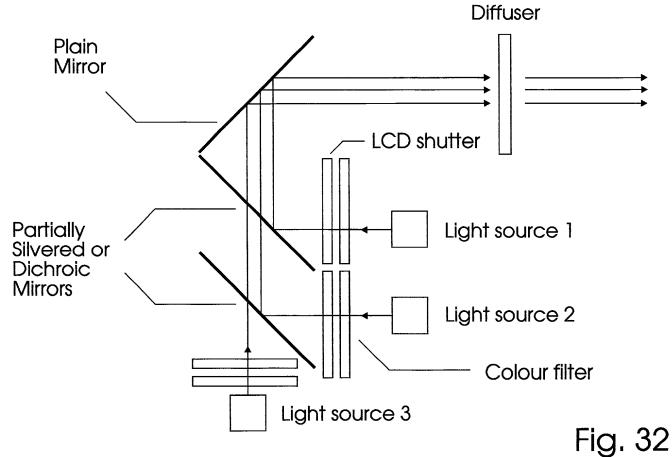


Fig. 30





LED Array-1 (Monochrome LEDs)

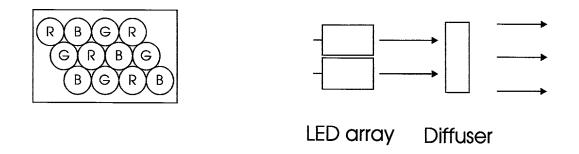
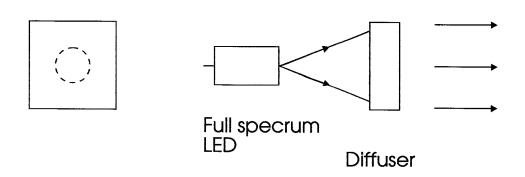
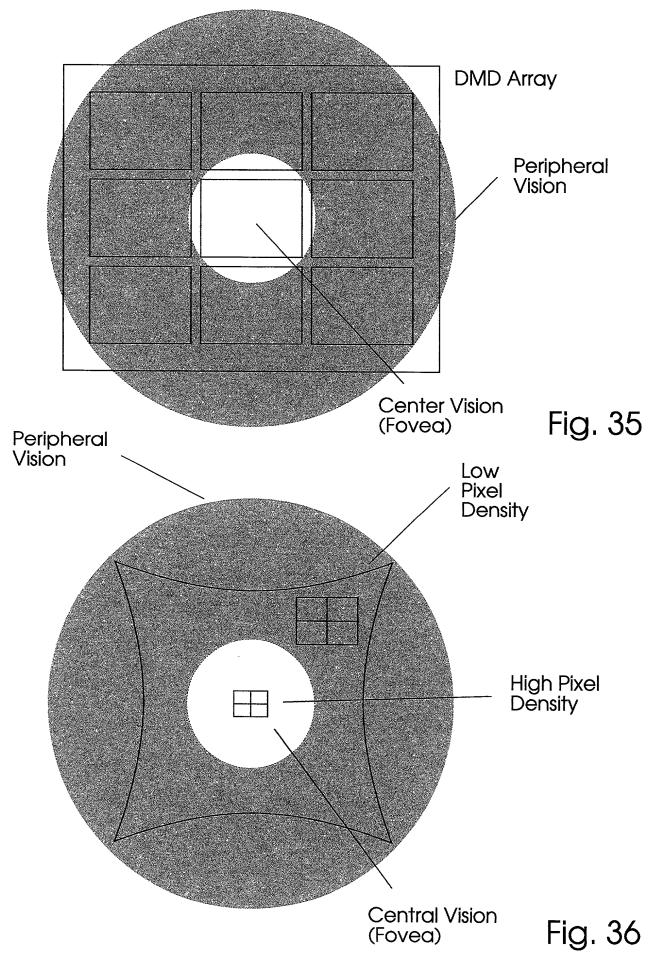


Fig. 33

LED Array - 2 (Full Spectrum LEDs)



Optical enhancements



Colour space comparison

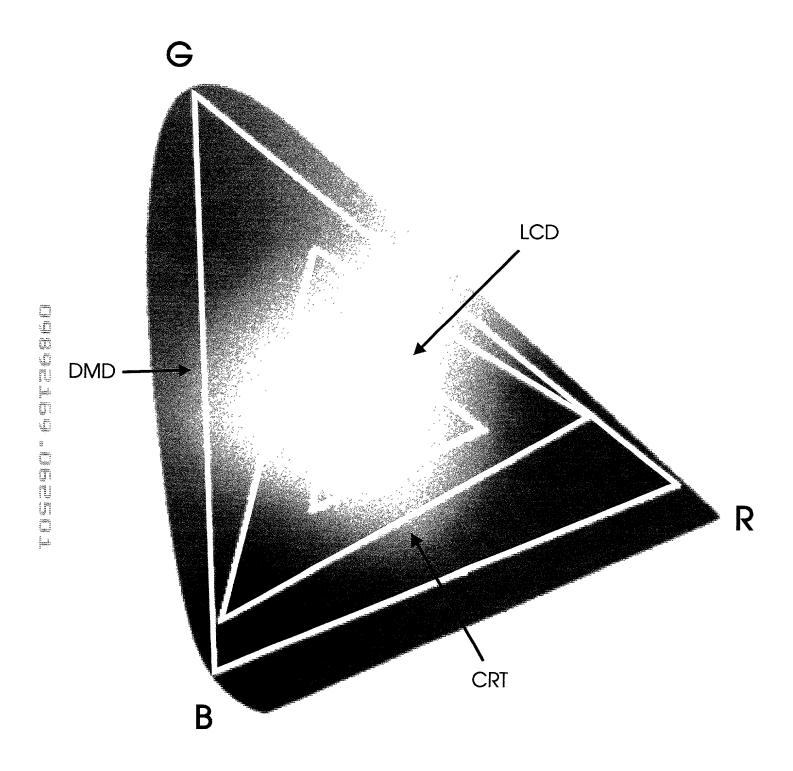


Fig. 37